

NPS Collaborator's Meeting

Date: October 1, 2020

Time: 9:00AM – 10:00AM

Attendees: Vladimir Berdnikov, Marie Boer, Aaron Brown, Carlos Munoz-Camacho, Alexandre Camsonne, Rolf Ent, Tanja Horn, Charles Hyde, Steven Lassiter, Hamlet Mkrtchyan, Jacob Murphy, Julie Roche, Vardan Tadevosyan, Bogdan Wojtsekhowski

1. [Detector Frame Assembly \(Carlos Munoz-Camacho\)](#)

- 1.1. Five of 30 PMT PCBs tested, as well as the signal cables that attach to a patch panel on top of the detector frame
 - 1.1.1. Information on the testing process will be provided via NPS wiki
- 1.2. PCBs cabled and [populated in the detector frame](#) in preparation for shipment to JLab
- 1.3. Discussion about best placement for chillers
 - 1.3.1. Concerns expressed about radiation damage to the chillers
 - 1.3.2. Placing chillers on other side of SHMS magnets, to provide radiation shielding, might be a solution

2. [DSG Update \(Aaron Brown\)](#)

- 2.1. [NPS Collaborator's Meeting DSG Update](#) presentation
- 2.2. Completed fabrication of 820 of 1100 divider cables
- 2.3. All components for fabricating the 140' multi-conductor cables have been ordered
- 2.4. Stability testing is complete
 - 2.4.1. Average voltage for all channels of 32 modules tested are within manufacturer's specifications
 - 2.4.2. Average current for most channels of 32 modules tested are within manufacturer's specifications
- 2.5. CSS-BOY controls and monitoring screens under development
 - 2.5.1. Concerns were expressed about how users will be alerted to alarms
 - 2.5.2. Alarms will be displayed on *NPS Overview* screen
 - 2.5.3. Configuration file (accessible from expert user screen) will be generated to set parameters prior to start of experimental runs
- 2.6. Interlock system development
 - 2.6.1. Carlos Munoz-Camacho stated that there are already ~150 PT100 temperature sensors that will be in the crystal zone; he would like to have them integrated into the interlock system

3. Tanja Horn presented [three crystal stacking options](#)